P15WL01

TOUCH

White color available upon request

PROCESSOR	i3 Dual Core (Option)	i5 Quad Core (Option)	i7 Quad Core (Option)	Celeron Dual Core (Option)
	Intel® Core™ i3-8145UE	Intel® Core™ i5-8265U	Intel® Core™ i7-8565U	Intel® Celeron 4305UE
MEMORY	2 x SODIMM slot (260 pin), DDR4-2400 dual channel (max of 64GB, 32GB per DIMM)			
STORAGE	Supports 1 x 2.5" SSD, SATA 3.0 (6GB/s), can be installed via swappable drive tray*			
VIDEO GRAPHICS	Intel UHD graphics			
DISPLAY	15.6" 1920x1080 Full HD, LC, 16:9 Backlight lifetime: 30,000 hours Brightness: 350 cd/m2	HDMI 1.4b x 1 (1080p/60Hz, 2160p/30Hz) D-sub/VGA x 1, (analog) 10-point Projected Capacitive, Multi-Touch Supports input with gloves (PVC, cotton, cotton/linen)		IP65 front panel protection Wide-screen panel eDP 30 pins (2 lanes)
AUDIO	Realtek ALC662/ALC888S, 2 channel HD audio			
NETWORK	Intel Gigabit LAN x 2, Realtek RTL8821CE 10/100/1000 MB/s	802.11 b/g/n/ac + Bluetooth 4.2 (M.2 2230 E key) Supports BT 4.2 in 2.4 GHz band	Built-in M.2 2230E WLAN card External antennas x 2 Supports 20/40/80 MHz channel bandwidth	
EXPANSION SLOT	M.2 2230 Type E key x 1, M.2 2280 Type M key x 1 (PCIe X4 or SATA) Optional M.2 2280 Type M key x 1 SSD SATA I/F slidable design or fixed design Supports M.2 SATA SSDs (BM key) and M.2 PCIe NVMe SSDs (M key) with auto detection			
TPM	Supports Hardware TPM 2.0			
PORTS	HDMI 1.4b + D-sub/VGA (digital video + audio) Intel Gigabit LAN RJ45 x 2 (i219LM and i211) (1) RS232 (DB-9); 2 x RS232/422/485 (ring in/5V standard & 12V w/ specific optional board) (4) USB 3.2 Gen 1 (Type A), (4) USB 2.0 (1) Line-out (1) MIC-in Perforation for optional Potential Equalization Pin (POAG)			
VIEWING ANGLE (H/V°)	85° (left/right/up/down)			
OPERATING TEMPERATURE	0 - 40°C			
STORAGE TEMPERATURE	-20°C - 60°C			
DIMENSIONS	15.5(L) x 10(W) x 1.9(H) inches			
POWER	90W 19V/4.74A external adapter 9-36V DC (optional wide range board)			
RELATIVE HUMIDITY	20% - 80% RH (non-condensing)			
EMC	CE, FCC, CEC, BSMI			
RF	US, EU, Taiwan			
SAFETY CERTIFICATION	cTUVus, CB, BSMI			
OS SUPPORT	Windows 10 64 bit, Windows 11 64 bit, Linux 64 bit			

For more information on all products, please contact us at sales@us.shuttle.com or 626.820.9000

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TOUCH PANEL PC

Front View and Bottom View
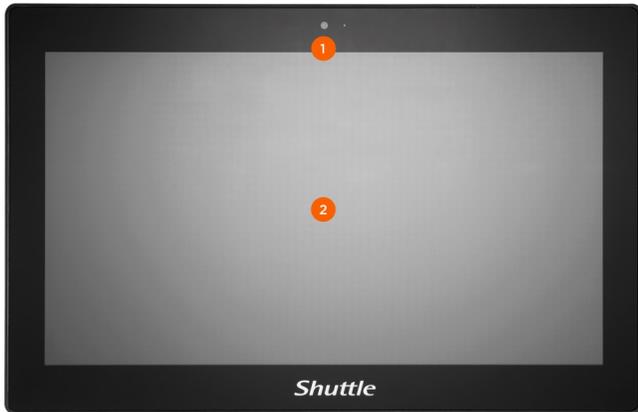
1 Full HD webcam

2 Multi-touch screen

A	Perforation for POAG*	**G**	USB 3.2 Gen 1 x 4
B	RS232 serial COM port x 2**	**H**	HDMI 1.4b
C	D-sub/VGA port	**I**	DC-in
D	Audio Line Out (Headphones)	**J**	Power Button
E	MIC-in	**K**	Second Power Button
F	Gigabit LAN port x 2 (Intel i211 and i219)		

*optional Potential Equalization Pin

**optional RS232/422/485 x 1 (ring in/5V standard & 12V w/ optional board)

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TOUCH PANEL PC

CHASSIS	Blue rear cover, rear cover chassis thickness: 3.0 mm (white color available upon request) Chassis with cover for I/O connectors, rear/cable cover and middle frame: aluminum VESA mount and stand are no included Dimensions: 15.5(L) x 10(W) x 1.9(H) inches Weight: 10 LBS (net)
POWER SUPPLY	External 90W power adapter (fanless) AC input voltage: 100 - 240V, 50 - 60 Hz Output: 19V DC 4.74A (also supports 65W power adapter with 12V DC output) AC mains cable: 3 pins, 1.8m length, with C5/C6 coupler for power adapter, CEE-7/7 plug with earth-contact (Type E+F) for power outlet
OPERATING SYSTEM	The system comes without an operating system installed. Compatibility: Windows 10 64 bit, Windows 11 64 bit, Linux 64 bit
PROCESSOR SUPPORT	8th Gen Intel® Whiskey Lake-U processors, 15W TDP Intel® Core™ i3-8145UE, Dual Core, 4M cache, 2.2 GHz (3.9 GHz turbo), 15W (optional) Intel® Core™ i5-8265U, Quad Core, 6M cache, 1.6 GHz (3.9 GHz turbo), 15W (optional) Intel® Core™ i5-8365UE, Quad Core, 6M cache, 1.6 GHz (4.1 GHz turbo), 15W (optional) Intel® Core™ i7-8565U, Quad Core, 8M cache, 1.8 GHz (4.6 GHz turbo), 15W (optional) Intel® Core™ i7-8665UE, Quad Core, 8M cache, 1.7 GHz (4.4 GHz turbo), 15W (optional) Intel® Celeron® 4305UE, Dual Core, 2M cache, 2 GHz, 15W (optional) Intel® vPro is only available with i5/i7 UE processors
FANLESS COOLING	Passive heatpipe cooling, no fan noise at all, suitable for noise sensitive environments Fanless, dust-free and virtually maintenance free
MEMORY SUPPORT	2 x 260 pin SODIMM slots Supports DDR4 2400 (PC4-19200) SDRAM at 1.2V Supports Dual Channel mode Supports a max. of 32GB per DIMM, up to 64GB total (2 x 32 GB) Supports two unbuffered DIMM module (no ECC or registered)
M.2 SLOT	M.2 2280 M slot provides the following interfaces: PCI-Express Gen 3.0 X4, SATA v3.0 (6 GB/s) interface Supports M.2 cards with a width of 22 mm and a length of 60 or 80 mm (type 2260/2280). Supports M.2 SATA SSDs (with BM key) and M.2 PCI-E NVMe SSDs (with M key) with auto detection.
AUDIO	Realtek® ALC662 or ALC888S audio codec, HD audio Digital multi-channel audio output via HDMI Two analog audio connectors (3.5 mm) on the bottom panel: Line-out (headphones), Microphone input
WIRED NETWORK	Supports 10/100/1000 MB/s operation Intel i211 ethernet controller with MAC, PHY, PCIe interface Intel i219LM PHY connected to the MAC of the processor Supports Wake on LAN, supports Teaming mode Supports network boot by Preboot eXecution Environment (PXE)
WIRELESS NETWORK	Built-in M.2 2230 AE WLAN card with two internal antennas Supports Wi-Fi IEEE 802.11 b/g/n/ac on 2.4/5 GHz band, 1T1R Supports 20/40/80 MHz channel bandwidth, supports Bluetooth 4.2 on 2.4 GHz band Supports WPA(-PSK), WPA2(-PSK), WEP 64/128 bit, IEEE 802.11x, IEEE 802.11i
INTEGRATED GRAPHICS	Intel UHD graphics (will vary depending on processor) Supports up to three independent screens: -Built-in Full HD display (1080p/60 Hz) -HDMI 1.4b (1080p/60 Hz or 2160p/30 Hz) -D-sub/VGA port (analog)
TPM MODULE	Hardware Trusted Platform Module (TPM 2.0)
DC INPUT CONNECTOR	DC input connector: 5.5/2.5 mm (outer/inner diameter) DC input supports an extended voltage range of 9 to 36V for an external power supply

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WEBCAM	Integrated Full HD 2.0 Megapixel (1920 x 1080)
IP65 PROTECTED	The front panel is dust and splash water protected with protection class IP65
TOUCHSCREEN	15.6" LCD display, 10-point multi-touch 16:9 widescreen panel (1920x1080 px) Native resolution: 1920 x 1080, 2 Megapixel (Full HD/1080p) Brightness: 350 cd/sqm or nits (250/350/450 nits, default 350) Contrast: 1000:1, signal interface: eDP 30 pins (2 lanes) Supports fingertip input, stylus pen not supported Viewing angle (left/right/up/down): 85°
BIOS	AMI BIOS in EEPROM with SPI interface Supports resume after power failure Supports hardware monitoring and watch dog functionality Supports booting from M.2 SSD cards and USB devices Supports Unified Extensible Firmware Interface (UEFI) Intel vPro requires appropriate software (only the yellow Intel i219 LAN port supports Intel vPro function)
STORAGE	1 x M.2 2280, M key (PCIe x4 or SATA, either one) Option: 1 x M.2 2280, M key, SSD SATA I/F, Slidable design 1 x M.2 2280, M key, SSD SATA I/F, Fixed design (Either one of above)
CONNECTORS	Power Button + 2nd button built-in* Serial Port DB9/D-sub (1 x RS232, RS232/RS422/RS485 x 2)** HDMI 1.4b (digital video/audio) DC input for external power adapter (19V/90W) D-sub/VGA (analog video) Perforation (6.5 mm) for optional equalization pin (POAG) USB 3.2 Gen 1 Type A x 4 (max 5GB/s) Microphone input (3.5 mm) Gigabit LAN x 2 (RJ45, i211/i219LM) Headphones output (3.5 mm)
OTHER CONNECTORS	HDMI 2.0 port can be added on request (if added, the VGA port or USB 2.0 x 4 are omitted)
INCLUDED ACCESSORIES	XPC installation guide External 65W/19V power adapter with cord Driver DVD Serial ATA cable for 2.5" drive Screw pack
ENVIRONMENTAL CRITERIA	Operating temperature: 0 - 40°C Humidity: 20 - 80% (non-condensing) Storage temperature: -20 - 60°C
CERTIFICATIONS	EMI: CE, FCC, BSMI RF: EU, US, Taiwan Safety: CB, cTUVus, BSMI This model is classed as a technical information equipment (ITE) in class A is for products used in commercial and industrial areas. The CE mark approves conformity by the EU directives: (1) 2014/30/EU relating to electromagnetic compatibility (EMC) (2) 2014/35/EU relating to Electrical Equipment designed for use within certain voltage limits (LVD) (3) 2009/125/EC relating to eco-design requirements for energy related products (ErP) (4) 2014/53/EU related to Radio Equipment Directive (RED)

*2nd power button built-in for easy access outside of the back cover

**(1) RS232 (DB-9); 2 x RS232/422/485 (ring in/5V standard & 12V w/ specific optional board)

BIOS DOWNLOADS: https://global.shuttle.com/products/productsDownload?pn=P15WL01

FAQ LIST: http://global.shuttle.com/support/faq

PRODUCT WARRANTY: https://www.shuttlecomputers.com/policies

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TOUCH PANEL PC

SUPPORTS 8TH GEN INTEL® PROCESSORS

The P15WL01 supports Intel® 8th Generation Celeron® and Core™ i3/i5/i7 processors as well as commercial or embedded Whiskeylake-U CPUs.*

*Available configurations for this model: Intel® Core™ i3-8145UE, Intel® Core™ i5-8265U, Intel® Core™ i5-8365UE, Intel® Core™ i7-8565U, Intel® Core™ i7-8665UE, Celeron® 4305UE

IP65 CERTIFIED DESIGN

The front panel of the P15WL01 is IP65 certified for dust and splash water resistance, suitable for indoor applications where there touch screen my be exposed to humidity and the occasional splashing of water.

MULTI-TOUCH DISPLAY

The 15.6" 10-point multi-touch capacitive TFT-LCD screen of the P15WL01 makes it suitable for interactivity as a human-machine interface (HMI), process control, infotainment, and kiosk.

ALUMINUM CHASSIS

The rear chassis and middle frame are completely made of aluminum (3 mm thickness). Multiple I/O ports include connections like HDMI, VGA, USB 3.2 Gen 1 ports, and COM ports. The back panel cover makes for effective cable management.

FANLESS DESIGN

With a passive heatpipe cooling, the fanless design reduces power consumption required by a fan, perfect for noise-sensitive environments.

For more information on all products, please contact us at **sales@us.shuttle.com** or **626.820.9000**